

Name:

Project:

Date:

Class:

PBS Bridge Forces Interactive Assignment

(Bridges Assignment 3)

Using my Homepage, go to Bridges Page, then “PBS Bridge Forces Interactive”

In your Engineering Notebook, follow the instructions below:

Make a table with the 5 forces listed across the top – compression, tension, bending, shear, and torsion. You may wish to put your engineering paper sideways for this table. For each of the force types, include a row that addresses each of the following:

- Write a description of this type of force in complete sentences
- Describe a real-life example of this force in complete sentences

On the other side of your paper, make a table with the three shapes listed across the top– rectangle, arch, and triangle. For each of the shapes, include a row that address each of the following:

- One elephant – what type of forces are seen, and where?
- Three elephants – what happens to each shape and why?
- Six elephants – same
- Nine elephants – same
- Pushing on the shape – what happens?
- What can make the shape stronger?